

## ABSTRACT OF DISCLOSURE

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The present invention relates to a method for providing presentation managing information which is required for a digital television to present received  
5 program immediately and adequately when reproducing digital data stream recorded in a disk recording medium such as a high density digital versatile disk. A method according to the present invention, when recording data stream, divides digital data stream into predetermined-sized packets in the  
10 basis of presentation time of each divided stream; produces specific information indicating when to send presentation managing information to be used for control the presentation of the digital data stream; inserts the produced specific information between the packets for the  
15 divided stream; and records the packets and the specific information sequentially in the disk recording medium, and when reproducing data stream, reproduces data stream recorded in a disk recording medium; extracts navigation information from the reproduced data stream; produces a  
20 program managing information packet based on the extracted navigation information; decides when to send the produced program managing information packet; and transmits the presentation managing information packet at the decided time. Therefore, the present invention makes it unnecessary  
25 to record program specific information (PSI) repeatedly in the presentation data packs by producing PSI packets based on the information written in the navigation pack, thereby improving the recording efficiency of the high-density disk recording medium.